

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 59226472
PUBLICATION DATE : 19-12-84

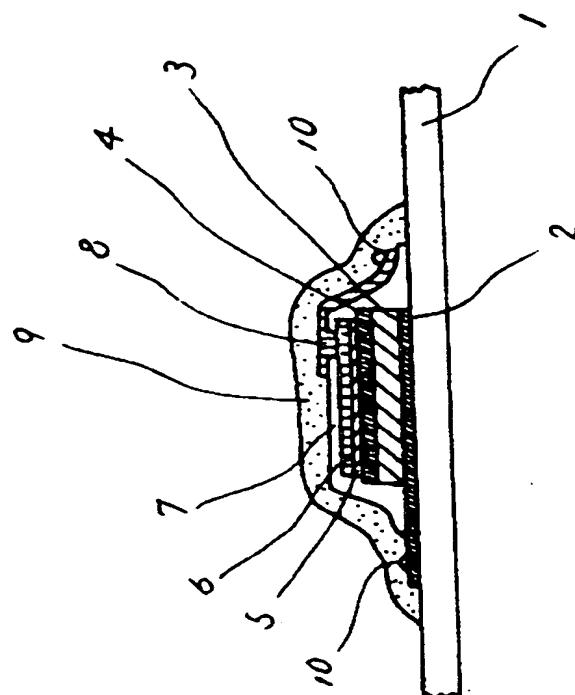
APPLICATION DATE : 06-06-83
APPLICATION NUMBER : 58099346

APPLICANT : HITACHI LTD;

INVENTOR : KUDO TETSUICHI;

INT.CL. : H01M 10/36

TITLE : THIN FILM LITHIUM BATTERY



ABSTRACT : PURPOSE: To provide a thin film lithium battery having a long storage life and stabilized performance by covering whole thin film with a protect film such as silicon nitride or silicon oxide and sealing it with resin film thereon.

CONSTITUTION: An aluminium film 2 as positive current collector, a positive film 3 comprising titanium disulfide, a solid electrolyte film 4, a lithium metal film 5 as negative active material, and a nickel film 6 as negative current collector are stacked in order on a silicon substrate 1. A silicon film 7 is deposited thereon by sputtering, then a nickel film 8 is vacuum-deposited, and whole battery elements are sealed with epoxy resin. By protecting whole battery forming materials with Si_3N_4 film and sealing with epoxy resin thereon, a thin film lithium battery having long stabilized performance and life is formed.

COPYRIGHT: (C)1984,JPO&Japio